2/27/2013



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

> OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Jeffrey H. Birk, Ph.D Regulatory Manager BASF 26 Davis Drive Research Triangle Park, NC 27709

FEB 27 2013

Subject: Label Amendment Product Name: Pendulum 0.5% Plus Fertilizer EPA Registration Number: 241-423 Application Dated: February 4, 2013

Dear Dr. Birk,

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

A stamped copy of your label is enclosed for your records. This label supersedes all previously accepted labels. You must submit one (1) copy of the final printed label before you release the product for shipment. Products released for shipment after eighteen (18) months from the date of this letter or the next printing of the label, whichever occurs first, must bear the new revised label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA $\S6(e)$. Your release for shipment of the product constitutes acceptance of these conditions.

If you have any questions, please contact Amaris Johnson via email at johnson.amaris@epa.gov or by phone at (703) 305-9542.

Sincerely,

Kable Bo Davis, Project Manager 25 Herbicide Branch Registration Division Office of Pesticide Programs

	Group	3	Herbicide
Pendulum [®] 0.5% Plus Fertiliz	ef C C	E	PTED
Preemergence Weed Control	FEB	27	2013
0.5% pendimethalin + X-X-X Fertilize	Pungicióa	, and R d, for t	i insecticide, odenticide Act, he peuticide
FOR USE ON TURFGRASSES AND ESTABLISHED LANDS	CAPE OF	No. NAT	MENTALS
NOT FOR USE IN ORGANIC CROP AND FOOD PRODUC		CALII	FORNIA

Active Ingredient:	
pendimethalin: N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine	5%
Other Ingredients:99.	<u>5%</u>
Total:	0%

EPA Reg. No. 241-423

EPA Est. No.

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GUARANTEED ANALYSIS

Total Nitrogen (N)	X.X%
X.X % Ammoniacal Nitrogen	
X.X % Urea Nitrogen	
Available Phosphoric Acid (P ₂ O ₅)	X.%
Potassium Sulfate (K ₂ SO ₄)	X%
Derived from: Urea, Diammonium Phosphate, and Sulfate of Potash	

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

See inside for additional First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty, and state-specific crop and/or use site restrictions.

Net Contents:

BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709



The Chemical Company

	FIRST AID
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. DO NOT give anything by mouth to an unconscious person.
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
If in eyes	 Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eyes. Call a poison control center or doctor for advice.
lf inhaled	 Move person to fresh air. If person is not breathing, call 911 or ambulance; then give artificial respiration, preferably by mouth to mouth if possible. Call a poison control center or doctor for advice.
	HOTLINE NUMBER
	ner or label with you when calling a poison control center or doctor or going for o contact BASF Corporation for emergency medical treatment information:

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Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing dust.

Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are listed below. If you want more options, follow the instructions for **Category A** on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of waterproof material, such as butyl rubber ≥14 mils, nitrile rubber ≥14 mils, or neoprene rubber ≥14 mils
- · Shoes plus socks
- Protective eyewear

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This product is toxic to fish. **DO NOT** apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate.

For Florida Only:

- DO NOT apply near water, storm drains or drainage ditches.
- DO NOT apply if heavy rain is expected.
- Apply only to lawn, and sweep any product that lands on the driveway, sidewalk or street, back onto lawn.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

This label must be in the possession of the user at time of pesticide application.

BASF Corporation does not recommend or authorize the use of this product in manufacturing, processing or preparing custom blends with other products for application to turf or ornamentals.

DO NOT apply **Pendulum[®] 0.5% Plus Fertilizer** in greenhouses, shadehouses or other enclosed structures.

NOT FOR USE on grass grown for commercial seed production.

DO NOT apply this product through any irrigation system. Keep children and pets out of treated area until dust has settled.

DO NOT allow dust to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, nontarget crops, aquatic and wetland areas, woodlands, pasture, rangeland, or animals.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of waterproof material, such as butyl rubber
 <u>></u>14 mils, nitrile rubber
 <u>></u>14 mils, or neoprene rubber
 <u>></u>14 mils
- Shoes plus socks

NONAGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

DO NOT enter or allow others to enter the treated area until dusts have settled.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR RESIDUES.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

Pesticide Storage

DO NOT store above 120°F. Store in original container and keep closed. Store in a cool, dry place.

Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

Container Handling

(for paper or plastic bags)

Nonrefillable Container. DO NOT reuse or refill this container. After completely emptying container into application equipment, dispose of empty bag in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Observe all cautions and limitations on this label and the labels of products used in combination with **Pendulum**[®] **0.5% Plus Fertilizer**. The use of **Pendulum 0.5% Plus Fertilizer** not consistent with this label can result in injury to crops, animals, or persons. Keep containers closed to avoid spills and contamination.

Product Information

Pendulum 0.5% Plus Fertilizer is a combination preemergence herbicide and fertilizer formulated to provide control of most annual grasses and certain broadleaf weeds found in any turfgrass site (lawns, sod, turf areas). Examples of such sites include, but are not limited to: golf courses, lawns in residential, commercial establishments, or grounds around military or other institutions, parks, airports, roadsides, schools or cemeteries; athletic fields or recreational areas; prairiegrass areas; and sod farms. **Pendulum 0.5% Plus Fertilizer** can be used around established ornamentals in the landscape and in established wildflower plantings. **Pendulum 0.5% Plus Fertilizer** may be used for hardwood and conifer regeneration on conservation reserve program land or similar areas.

Pendulum 0.5% Plus Fertilizer is labeled for use on the following turfgrass species: Kentucky bluegrass, perennial ryegrass, fine fescue, tall fescue, bentgrass, *Poa annua* (except putting greens and tees), Bermudagrass, St. Augustinegrass, Bahiagrass, centipedegrass, zoysiagrass, and blends of these grasses.

Pendulum 0.5% Plus Fertilizer controls weeds as they germinate but will not control established weeds. Therefore, areas to be treated should be free of established weeds. Unusually cold, excessively wet, or hot and dry conditions that delay germination or extend germination over a long period of time can reduce weed control.

Application Instructions

Apply product uniformly at the specified rate using a properly calibrated spreader. The efficacy of **Pendulum**[®] **0.5% Plus Fertilizer** will be improved if the application is followed by 1/2 inch of rainfall or its equivalent in sprinkler irrigation. This will remove the product from the turfgrass foliage and establish a preemergence herbicide barrier in the soil. If **Pendulum 0.5% Plus Fertilizer** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

Avoid contact of product with porous surfaces such as driveways, stone, or wood. Removing particles will help prevent staining.

Pendulum 0.5% Plus Fertilizer can be applied before or after postemergence herbicides used to control emerged weeds in turfgrasses. For annual grass control, applications can be made with **Segment[®] herbicide**, **Acclaim Extra[®] herbicide**, or MSMA-containing products to control emerged weeds. Broadleaf weeds can be controlled using **Trimec[®] herbicide**, **Three-Way[™] herbicide**, 2,4-D and other similar products.

Applied according to label directions and under normal growing conditions, **Pendulum 0.5% Plus Fertilizer** will not cause injury to desirable plants. Overapplication can result in stand loss, plant injury, or soil residues. Uneven application can decrease weed control or cause plant injury.

Seedling diseases, cold weather, excessive moisture, high soil pH, high soil salt concentration, or drought can weaken seedlings and plants and increase the possibility of plant damage from **Pendulum 0.5% Plus Fertilizer**.

Apply with properly calibrated spreader equipment to provide uniform distribution. Check application routinely to determine proper calibration. Avoid overlaps that will increase rates above those specified. Avoid application when winds may cause drift.

Spreader Settings

Spreader Type	<u>Settings</u>
Х	XXX
Y	XXX
Z	XXX

Maximum Application Rate by Use Site

Use Site	lbs Product/A	lbs Product/1000 ft ²	lbs a.i./A
Residential [*] and Sod Farm Turf	400	9.2	2.0
Golf Course, Commercial and other Non-residential Turf Sites	600	13.8	3.0

Residential is defined as turf in any residential situation as well as home lawns, schools, parks and playgrounds.

Florida Specific Requirements for Fertilizer Use

For applications to sports turf at golf courses, parks and athletic fields:

DO NOT exceed fertilizer rates recommended in the document titled SL 191, "Recommendations for N, P, K and Mg for Golf Course and Athletic Field Fertilization Based on Mehlich I Extractant" dated March 2007. Copies may be downloaded from http://edi.ifas.ufl.edu/SS404.

Follow "Best Management Practices for the Enhancement of Environmental Quality on Florida Golf Courses," published by the Florida Department of Environmental Protection, dated January 2007. Copies may be downloaded from http://www.dep.state.fl.us/water/nonpoint/pubs.htm.

For all fertilizer uses other than as a specialty fertilizer on urban turf:

DO NOT exceed rates recommended in the document titled Best Management Practices for Protection of Water Resources in Florida, June 2002, Florida Green Industries. This document may be downloaded from http://www.dep.state.fl.us/water/nonpoint/docs/nonpoint/BMP_Book.

Weeds Controlled

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Pendulum[®] 0.5% Plus Fertilizer provides preemergence control of weed species listed. Applications can be made around and over the top of ornamentals and to sites listed on this label.

Grasses Controlled	
Common Name	Scientific Name
Barnyardgrass	Echinochloa crus-galli
Bluegrass, Annual	Poa annua
Crabgrass	Digitaria spp.
Crowfootgrass	Dactyloctenium aegyptium
Foxtail, Giant	Setaria faberi
Foxtail, Green	Setaria viridis
Foxtail, Yellow	Setaria glauca
Goosegrass	Eleusine indica
Itchgrass	Rottboellia exaltata
Johnsongrass (from seed)	Sorghum halepense
Junglerice	Echinochloa colona
Lovegrass (from seed)	Eragrostis spp.
Panicum, Browntop	Panicum fasciculatum
Panicum, Fall	Panicum dichotomiflorum
Panicum, Texas	Panicum texanum
Sandbur, Field	Cenchrus incertus
Signalgrass	Brachiaria platyphylla
Sprangletop, Mexican	Leptochloa uninervia
Sprangletop, Red	Leptochloa filiformis
Witchgrass	Panicum capillare
Woolly Cupgrass	Eriochloa villosa
Broadleaf Weeds Controlled	Optimulifier Name
Common Name	Scientific Name
Burweed, Lawn	Soliva pterosperma
Carpetweed	Mollugo verticillata
Chickweed, Common	Stellaria media
Chickweed, Mouseear	Cerastium vulgatum
Clover, Hop	Trifolium procumbens
Cudweed	Trifolium procumbens Gnaphalium spp.
Cudweed Evening primrose	Trifolium procumbens Gnaphalium spp. Oenothera biennis
Cudweed Evening primrose Fiddleneck	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia
Cudweed Evening primrose Fiddleneck Filaree	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp.
Cudweed Evening primrose Fiddleneck Filaree Henbit	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule
Cudweed Evening primrose Fiddleneck Filaree Henbit Knotweed, prostrate	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare
Cudweed Evening primrose Fiddleneck Filaree Henbit	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule
Cudweed Evening primrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia Lambsquarters	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album
Cudweed Evening primrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amaranthus spp.
Cudweed Evening primrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia Lambsquarters	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amaranthus spp. Tribulus terrestris
Cudweed Evening primrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia Lambsquarters Pigweed	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amaranthus spp.
Cudweed Evening primrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia Lambsquarters Pigweed Puncturevine	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amaranthus spp. Tribulus terrestris Portulaca oleracea Richardia scabra
Cudweed Evening primrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia Lambsquarters Pigweed Puncturevine Purslane	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amaranthus spp. Tribulus terrestris Portulaca oleracea Richardia scabra Sisymbrium irio
Cudweed Evening primrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia Lambsquarters Pigweed Puncturevine Purslane Pusley, Florida	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amaranthus spp. Tribulus terrestris Portulaca oleracea Richardia scabra
Cudweed Evening primrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia Lambsquarters Pigweed Puncturevine Purslane Pusley, Florida Rocket, London	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amaranthus spp. Tribulus terrestris Portulaca oleracea Richardia scabra Sisymbrium irio
Cudweed Evening primrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia Lambsquarters Pigweed Puncturevine Purslane Pusley, Florida Rocket, London Shepherdspurse	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amaranthus spp. Tribulus terrestris Portulaca oleracea Richardia scabra Sisymbrium irio Capsella bursa-pastoris
Cudweed Evening primrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia Lambsquarters Pigweed Puncturevine Purslane Pusley, Florida Rocket, London Shepherdspurse Smartweed, Pennsylvania	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amaranthus spp. Tribulus terrestris Portulaca oleracea Richardia scabra Sisymbrium irio Capsella bursa-pastoris Polygonum pensylvanicum
Cudweed Evening primrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia Lambsquarters Pigweed Puncturevine Purslane Pusley, Florida Rocket, London Shepherdspurse Smartweed, Pennsylvania Speedwell, Corn	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amaranthus spp. Tribulus terrestris Portulaca oleracea Richardia scabra Sisymbrium irio Capsella bursa-pastoris Polygonum pensylvanicum Veronica arvensis
Cudweed Evening primrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia Lambsquarters Pigweed Puncturevine Purslane Pusley, Florida Rocket, London Shepherdspurse Smartweed, Pennsylvania Speedwell, Corn Spurge, Annual	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amaranthus spp. Tribulus terrestris Portulaca oleracea Richardia scabra Sisymbrium irio Capsella bursa-pastoris Polygonum pensylvanicum Veronica arvensis Euphorbia spp.
Cudweed Evening primrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia Lambsquarters Pigweed Puncturevine Purslane Pusley, Florida Rocket, London Shepherdspurse Smartweed, Pennsylvania Speedwell, Corn Spurge, Annual Spurge, Prostrate	Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amaranthus spp. Tribulus terrestris Portulaca oleracea Richardia scabra Sisymbrium irio Capsella bursa-pastoris Polygonum pensylvanicum Veronica arvensis Euphorbia spp. Chamaesyce humistrata

Turfgrass

Residential, Golf Course, Commercial and other Non-residential Sites

Application Rates For Preemergence Weed Control¹

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Turfgrass Species	Weed	Pendulum [®] 0.5% Plus Fertilizer Rate	Comment
Cool-season Grass			
Bluegrass, Kentucky Fescue, fine Fescue, tall Ryegrass, perennial	crabgrass foxtail <i>Poa annua</i> barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	All Turf Uses 300-400 lbs/acre as the initial application before weed germination in the spring	Apply a repeat application of 200-300 lbs/acre after 5-8 weeks for extended control or where heavy weed infestations are expected.
	goosegrass	Residential and Sod Farm Turf Uses Only ² 300-400 lbs/acre in the spring before weed germination Golf Course, Commercial	Apply a repeat application of 200 lbs/acre after 5-8 weeks if the lower rate was used initially or for extended goosegrass control.
		and other Non-residential Turf Sites 300-600 lbs/acre in the spring before weed germination	
	cudweed <i>Poa annua</i> chickweed lawn burweed henbit corn speedwell	All Turf Uses 300-400 lbs/acre	Apply in late summer or early fall before weed germination. Apply a repeat application of 300-400 lbs/acre after 5-8 weeks for extended <i>Poa annua</i> control.

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Turfgrass Species	Weed	Pendulum [®] 0.5% Plus Fertilizer Rate	Comment
Cool-season Grass (co	ontinued)	······································	
Bentgrass or established <i>Poa annua</i> ³ (1/2 inch or taller)	crabgrass foxtail <i>Poa annua</i> barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	All Turf Uses (Non-greens and Tees) 300 lbs/acre in the spring before weed germination	Apply a repeat application of 200-300 lbs/acre after 5-8 weeks where heavy weed infestations are expected.
	goosegrass	All Turf Uses (Non-greens and Tees) 300 lbs/acre in the spring before weed germination	Apply a repeat application of 300 lbs/acre after 5-8 weeks for extended control.
	cudweed <i>Poa annua</i> chickweed lawn burweed henbit corn speedwell	All Turf Uses (Non-greens and Tees) 300-400 lbs/acre	Apply in late summer or early fall before weed germination.

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Application Rates For Preemergence Weed Control¹(continued)

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Turfgrass Species	Weed	Pendulum [®] 0.5% Plus Fertilizer Rate	Comment
Warm-season Grass			
Bahiagrass	crabgrass	Residential and Sod Farm Turf Uses Only ² 300-400 lbs/acre in the spring	Apply a repeat
Bermudagrass Buffalograss Centipedegrass	foxtail <i>Poa annua</i> barnyardgrass	before weed germination	application of 200-300 lbs/acre after 5-8 weeks if
Fescue, tall St. Augustinegrass Zoysiagrass	fall panicum oxalis prostrate spurge	Golf Course, Commerical and other Non-residential Turf Sites	necessary.
20951491455	purslane knotweed evening primrose hop clover	300-600 lbs/acre in the spring before weed germination	
	goosegrass	All Turf Uses (Non-greens and Tees) 300 lbs/acre before weed germination in the spring. Apply a repeat application of 300-400 lbs/acre after 5-8 weeks.	An additional application of .300 lbs/acre may be applied for extended goosegrass control 8 weeks after the second application.
	cudweed <i>Poa annua</i> chickweed lawn burweed henbit corn speedwell	All Turf Uses 300-400 lbs/acre	Apply in late summer or early fall before weed germination. Apply a repeat application of 300-400 lbs/acre after 5-8 weeks for extended <i>Poa annua</i> control.

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Application Rates For Preemergence Weed Control¹(continued)

¹ DO NOT exceed a maximum rate of 400 pounds per acre per application for use on residential turfgrass and sod farm turfgrass.

DO NOT exceed a maximum rate of 600 pounds per acre per application for use on golf course turfgrass, commercial or other non-residential turfgrass sites. ² Residential is defined as turf in any residential situation as well as home lawns, schools, parks and playgrounds.

³ Not for use on bentgrass or Poa annua greens or tees.

Turfgrass Precautions

Use on well-established turfgrass with a dense and uniform stand. On newly planted areas, application should not be made until turfgrass has filled in and been mowed at least 4 times. On turf thinned or damaged because of winter injury, excessive moisture, etc., allow for turf recovery before making an application.

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Applications made to overseeded warm-season turfgrass may cause thinning or injury of the overseeded species.

DO NOT use on bentgrass or Poa annua greens and tees or injury may occur.

Delay reseeding or winter overseeding of treated turfgrass for at least three (3) months following the last **Pendulum**[®] **0.5% Plus Fertilizer** application. Delay sprigging turfgrass for five (5) months after application.

Industrial (Unimproved) Turf

Industrial or unimproved turf areas often have a different spectrum of weeds to control than those found in fine turf. **Pendulum 0.5% Plus Fertilizer** will control annual grasses and broadleaf weeds listed for cool-season and warm-season grass, and the following weeds that might germinate in established grass in rights-of-way, roadsides, construction sites, parks, substations, lots, or similar areas: crowfootgrass, itchgrass, Johnsongrass (from seed), junglerice, lovegrass (from seed), browntop panicum, Texas panicum, field sandbur, signalgrass, Mexican sprangletop, red sprangletop, witchgrass, woolly cupgrass, carpetweed, fiddleneck, filaree, kochia, lambsquarters, pigweed, puncturevine, Florida pusley, London rocket, shepherdspurse, Pennsylvania smartweed, annual spurge, and velvetleaf

Apply before weeds germinate. Use a postemergence herbicide such as 2,4-D; MCPA; MSMA; or similar product to control established weeds.

Landscape and Grounds Maintenance

Pendulum 0.5% Plus Fertilizer can be incorporated into landscape and grounds maintenance programs to provide extended preemergence control of most annual grasses and certain broadleaf weeds. Areas to be treated include but are not limited to established trees or ornamentals in the landscape or in mulch beds; or other commercially maintained landscape areas such as borders, around statuary or monuments in parks or in parking areas. If emerged weeds are present at time of application, either **shallow** cultivate to destroy existing weeds or, where practical, remove by hand or apply a postemergence product labeled for such use before an application of **Pendulum 0.5% Plus Fertilizer**. **Pendulum 0.5% Plus Fertilizer** may be used before or after application of herbicides registered for postemergence use (i.e. **Segment[®] herbicide**, **Roundup PRO[®] herbicide** or **Finale[®] herbicide**) for the control of established weeds.

DO NOT apply sprays containing **Roundup[®] herbicide** or **Finale** over the top of desirable plants, and follow label restrictions. A **Pendulum 0.5% Plus Fertilizer** treatment may be followed by any registered herbicide to control weeds not listed on the **Pendulum 0.5% Plus Fertilizer** label.

Ornamental Bulbs

Pendulum 0.5% Plus Fertilizer may be applied for control of susceptible annual weeds in ornamental bulbs listed on the label (crocus, daffodil (narcissus), gladiolus, tulip, etc.). Apply **Pendulum 0.5% Plus Fertilizer** before, during or after bulb emergence. If weeds have already germinated, use a labeled postemergence herbicide to control emerged weeds.

Wildflowers

Pendulum 0.5% Plus Fertilizer may be applied for control of susceptible annual weeds in plantings of wildflowers listed on the label (black-eyed Susan, California poppy, coreopsis, oxeye daisy, etc.). **Pendulum 0.5% Plus Fertilizer** may be applied to established perennial wildflowers before emergence of weeds or wildflowers. For wildflowers being established from seed, apply **Pendulum 0.5% Plus Fertilizer** after wildflowers have emerged but before weed germination. If weeds have already germinated, use a labeled postemergence product to control emerged weeds.

Because of the diversity of species and varieties which exist in areas where wildflowers are grown, the response to **Pendulum® 0.5% Plus Fertilizer** may vary greatly. Carefully test desirable species to determine if area-wide applications can be made.

Ornamental Precautions

Apply **Pendulum 0.5% Plus Fertilizer** to established plantings. Care must be taken that soil or planting mixes have settled firmly following transplanting and that there are no cracks that would allow direct contact of **Pendulum 0.5% Plus Fertilizer** with roots. Applications where soil and media surfaces are uniformly covered will result in best weed control and ornamental tolerance. Plant only those desirable plant species listed on this label into soil treated the previous season with **Pendulum 0.5% Plus Fertilizer** or injury may occur.

Tolerant Ornamental Species

Pendulum 0.5% Plus Fertilizer is safe around and over the top of the established plants listed below.

Trees		
Common Name	Scientific Name	
Alder, European Black	Alnus glutinosa	
Apple	<i>Malus</i> spp.	
Arborvitae, American	Thuja occidentalis	
Arbutus	Arbutus spp.	
Ash, Red	Fraxinus pennsylvanica	
Ash, White	Fraxinus americana	
Aspen, Bigtooth	Populus grandidentata	
Aspen, Quaking	Populus tremuloides	
Basswood	<i>Tilia</i> spp.	
Birch, European Weeping	Betula pendula	
Birch, River	Betula nigra	
Buckeye, Red	Aesculus pavia	
Cedar, White	Thuja occidentalis	
Chamaecyparis, Boulevard	Chamaecyparis pisifera	
Cherry, Black	Prunus serotina	
Cherry, Choke	Prunus virginiana	
Cherry, Kwanzan	Prunus serrulata	
Cherry, Nanking	Prunus tomentosa	
Cottonwood	Populus deltoides	
Crabapple	Malus spp.	
Crape Myrtle	Lagerstroemia indica	
Cryptomeria, Japanese Cedar	Cryptomeria japonica	
Cypress, Bald	Taxodium distichum	
Cypress, Leyland	Cupressocyparis leylandii	
Dogwood, Flowering	Cornus florida	
Dogwood, Korean	Cornus kousa	
Dogwood, Shrub	Cornus spp.	
Dogwood, Silky	Cornus amomum	
Elm	Ulmus japonica	
Fir, Balsam	Abies balsamae	
Fir, Douglas	Pseudotsuga menziesii	
Fir, Fraser	Abies fraseri	
Fir, White	Abies concolor	
Franklinia	Ables concolor Franklinia spp.	
Ginkgo	Ginkgo biloba	
Gum, Black	Nyssa sylvatica	
Gum, Sour	Nyssa sylvatica Nyssa sylvatica	
Haw, Black	Viburnum prunifolium	
Hawthorn	Crataegus spp.	

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Tolerant Ornamental Species (continued)

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rees (continued)		
Common Name	Scientific Name	
lemlock, Canada	Tsuga canadensis	
temlock, Eastern	Tsuga canadensis	
lolly, American	llex opaca	
loneylocust	Gleditsia triacanthos	
llac, Common	Syringa vulgaris	
.ilac, Japanese Tree	Syringa reticulata	
inden	<i>Tilia</i> spp.	
lagnolia, Saucer	Magnolia soulangiana	
/lagnolia, Southern	Magnolia grandiflora	
/lagnolia, Star	Magnolia stellata	
Naidenhair Tree	Ginkgo biloba	
/laple, Paper-bark	Acer griseum	
/aple, Norway	Acer platanoides	
Naple, Japanese	Acer palmatum	
Maple, Red	Acer rubrum	
Naple, Sugar	Acer saccharum	
Jannyberry, Rusty	Viburnum rufidulum	
Dak, Chinquapin	Quercus muehlenbergii	
Dak, Live	Quercus virginiana	
Dak, Pin	Quercus palustris	
Dak, Red	Quercus rubra	
Dak, Swamp Chestnut	Quercus rubru	
Dak, Water	Quercus michauxii Quercus nigra	
Dak, White	Quercus alba	
	Quercus alba Quercus phellos	
Dak, Willow	•	
Dlive Delm Date	Olea europaea Bhoonix app	
Palm, Date	Phoenix spp.	
Palm, Fan	Washingtonia spp.	
Palm, Pindo	Butia spp.	
alm, Washington	Washingtonia spp.	
Peach	Prunus persica	
Pear, Bradford	Pyrus calleryana 'Bradford'	
ecan	Carya illinoensis	
Pine, Austrian	Pinus nigra	
rine, Italian Stone	Pinus pinea	
ine, Loblolly	Pinus taeda	
ine, Monterey	Pinus radiata	
ine, Red	Pinus resinosa	
ine, Scotch	Pinus sylvestris	
'ine, Virginia	Pinus virginiana	
Pine, White	Pinus strobus	
Plum, Purple Leaf	Prunus cerasifera	
oplar, Black	Populus nigra	
edcedar, Eastern	Juniperus virginiana	
Redcedar, Western	Thuja plicata	
ed Ironbark	Eucalyptus sideroxylon 'Rosea	
Redwood, Dawn	Metasequoia glyptostroboides	
Sequoia, Giant	Sequoiadendron giganteum	
Serviceberry	Amelanchier laevis	
•		
Sourwood	Oxydendrum arboreum	
Spruce, Colorado Blue	Picea pungens	
Spruce, Dwarf Alberta	Picea glauca 'Albertiana'	
Spruče, Norway	Picea abies	

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Trees (continued)		
Common Name	Scientific Name	
Spruce, White	Picea glauca	
Sweetgum	Liquidambar styraciflua	
Sycamore	Platanus occidentalis	
Trachycarpus	Trachycarpus spp.	
Tulip tree	Liriodendron tulipifera	
Walnut, Black	Juglans nigra	
Willow, Weeping	Salix babylonica	
Yellowwood	Cladrastis lutea	
Shrubs		
Common Name	Scientific Name	
Abelia, Glossy	Abelia grandiflora	
Aucuba, Gold	Aucuba japonica	
Azalea	Rhododendron spp.	
Bamboo, Heavenly	Nandina domestica	
Barberry	Berberis gladwynensis	
Barberry, Japanese	Berberis thunbergii	
Blue Indigo Bush	Dalea gregii	
Bottlebrush, Lemon	Callistemon citrinus	
Boxwood, Common	Buxus sempervirens	
Boxwood, Japanese	Buxus microphylla	
Brittlebush	Encelia farinosa	
Buttonbush	Cephalanthus occidentalis	
Camellia	Camellia japonica	
Cape Jasmine	Gardenia jasminoides	
Cassia, Feathery	Cassia artemisioides	
Cordyline	Cordyline spp.	
Correa	Correa spp.	
Cotoneaster	Cotoneaster apiculatus	
Cotoneaster, Bearberry	Cotoneaster dammeri	
Cotoneaster, Rock	Cotoneaster horizontalis	
Cypress, Italian	Cupressus sempervirens	
Cypress, Leyland	Cupressocyparis leylandii	
Deutzia, Slender	Deutzia gracilis	
	Cornus sericea	
Dogwood, Red Twig	Elaeagnus ebbingei	
Elaeagnus Escallonia	Escallonia fradesii	
	Euonymus fortunei	
Euonymus Euonymus Celden	· · · · · · · · · · · · · · · · · · ·	
Euonymus, Golden	Euonymus japonica	
Euonymus, Winged	Euonymus alata	
Firethorn	Pyracantha coccinea	
Forsythia, Border	Forsythia intermedia	
Fragrant Olive	Osmanthus fragrans	
Fuchsia, California	Zauschineria californica	
Gardenia	Gardenia jasminoides	
Hawthorne, Indían	Raphiolepis indica	
Hibiscus	Hibiscus syriacus	
Holly, Chinese	llex cornuta	
Holly, Fosters	<i>llex attenuata</i> 'Fosteri'	
Holly, Japanese	llex crenata	
Holly, Savannah	llex attenuata	
Holly, Yaupon	llex vomitoria	

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Shrubs (continued)	
Common Name	Scientific Name
Honeysuckle, Bush	Diervilla Ionicera
Hopseed Bush	Dodonaea viscosa
Hopbush	Dodonaea viscosa
Hydrangea	Hydrangea macrophylla
Juniper	Juniperus spp.
Juniper, Chinese	Juniperus chinensis v. pfitzer
Juniper, Shore	Juniperus conferta
Juniper, Trailing	Juniperus horizontalis
_aurel, Cherry	Prunus laurocerasus
Laurel, Mountain	Kalmia latifolia
Laurel, Otto Luyken	Prunus laurocerasus
Laurel, Schipka	Prunus schipkanensis
Laurustinus	Viburnum tinus
Lavender, English	Lavandula angustifolia
Leucothoe	Leucothoe fontanesiana
Leucothoe, Coast	Leucothoe axillaris
Lilac, Cut-leaf	Syringa laciniata
Lily-of-the-Nile	Agapanthus africanus
Mahonia	Mahonia aquifolium
Mariona Mock Orange	Pittosporum tobira
Myrtle, Compact	Myrtus communis
Myrtle, Wax	Myrica cerifera
Nandina	Nandina domestica
Dleander	Nerium oleander
Oregon Grape	Mahonia aquifolium
Osmanthus	Osmanthus fragrans
Palm, European Fan	Chamaerops humilis
Palm, Mediterranean Fan	Chamaerops spp.
Phlox, Prickly	Leptodactylon californicum
Photinia, Fraser	Photinia x fraseri
Pieris, Japanese	Pieris japonica
Pine, Mugo	Pinus mugo
Plum, Natal	Carissa grandiflora
Privet, California	Ligustrum ovalifolium
Privet, Glossy	Ligustrum lucidum
Privet, Variegated	Ligustrum sinensis
Privet, Waxleaf	Ligustrum japonicum
Pyracantha	Pyracantha coccinea
Quince, Flowering	Chaenomeles japonica
Ranger, Texas	Leucophyllum frutescens
Redroot	Ceanothus spp.
Rhododendron	Rhododendron spp.
Robira	Pittosporum tobira
Rose	Rosa spp.
Spice Plant	Illicium parviflorum
Spirea	Spiraea vanhouttei
Spirea, Anthony Waterer	Spiraea x bumalda
Spirea, Japanese	Spiraea japonica
Sweet Bay	Laurus nobilis
Trumpet Bush	Tecoma stans
Verbena, Lemon	Aloysia triphylla
Viburnum	Viburnum suspensum

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Scientific Name

Weigela florida

Ceanothus spp.

Xylosma congestum

Podocarpus macrophyllus

Wisteria spp.

Tecoma stans

Taxus cuspidata

Yucca filamentosa

Yucca pendula

Taxus media

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Shrubs (continued) Common Name

Weigela Wild Lilac Wisteria Xylosma Yellowbells Yew Yew, Japanese Yew, Southern Yucca, Adam's Needle Yucca, Weeping (

Ground Covers

AjugaAjuga reptansBaby Sun RoseAptenia cordifoliaBeach StrawberryFragaria chiloensisCapeweedArctotheca calendulaCinquefoil, SpringPotentilla vernaCoyotebrush, DwarfBaccharis pitularisDaisy, Trailing AfricanOsteospermum fruticosDymondiaDymondia margaretaeGazaniaGazania splendensIceplant, Large LeafCarpobrotus edulisIvy, EnglishHedera helixIvy, GeraniumPelargonium peltatumJasmine, AsiaticTrachelospermum asia	
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Ivy, GeraniumPelargonium peltatumJasmine, AsiaticTrachelospermum asia	
Jasmine, Asiatic Trachelospermum asia	
	iticum
Jasmine, Primrose Jasminum mesnyi	
Jessamine, Carolina Gelsemium sempervire	ens
Manzanita, Bearberry Arctostaphylos uva-urs	si
Miscanthus Miscanthus spp.	
Mondograss Ophiopogon japonica	
Morningglory Convolvulus spp.	
Myoporum Myoporum parvifiolium	
Pachysandra Pachysandra terminalis	s
Periwinkle, Common Vinca minor	
Potentilla Potentilla fruticosa	
Red Apple Aptenia cordifolia	
Rosemary Rosemarinus officinalis	3
Rose-of-Sharon Hypericum calycinum	
Sand Strawberry Fragaria chiloensis	
Sedum Sedum spurium	
St. Johnswort, Creeping Hypericum calycinum	
Stonecrop Sedum spurium	
Verbena, Peruvian Verbena peruviana	
Vervain Verbena peruviana	
Vetch, Crown Vicia sativa	
Vinca or Greater Periwinkle Vinca major	
Wintercreeper Euonymous fortunei	

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Perennials	
Common Name	Scientific Name
Acacia	Acacia redolens
Asparagus	Asparagus spp.
Aster, New York	Aster novi-belgii
Aster, Stokes	Stokesia laevis
Astilibe (False Spirea)	Astilibe spp.
Babys Breath	Gypsophila elegans
Beard-tongue	Penstemon spp.
Bellflower	Campanula spp.
Bird of Paradise	Caesalpinia pulcherrima
Black-eyed Susan	Rudbeckia hirta
Blanket Flower	Gaillardia x grandiflora
Bleeding Heart	Dicentra spectabilis
Butterfly Weed	Asclepias tuberosa
California Poppy	Eschscholzia california
Calla Lily	Zantedeschia aethiopica
Canna, Common Garden	Canna generalis 'Lucifer'
Carex	Carex spp.
Cast Iron plant	Aspidistra elatior
Chincherinchee	Ornithogalum thyrsoides
Clover, Crimson	Trifolium incarnatum
Columbine	Aquilegia 'McKana Giant'
Coreopsis	Coreopsis lanceolata
Crinum Lily	Crinum spp.
Crocus	Crocus spp.
Daffodil	Narcissus spp.
Daylily	Hemerocallis spp.
False dragonhead	Physostegia virginiana
Fairy Duster	Calliandra eriophylla
Fern, Asparagus	Asparagus officinalis
Fern, Boston	Nephrolepis exaltata
Fern, Leatherleaf*	Rumohra adiantiformis
Fern, Tree	Asparagus virgatus
Fortnight Lily	Moraea spp.
Foxglove, Common	Digitalis purpurea
Freesia	Freesia x hybrida
Fuchsia, Arizona	Zauschneria californica
Gayfeather	Liatris spp.
Gaillardia	Gaillardia pulchella
Geum	Geum spp.
Gladiolus	Gladiolus spp.
Heather, Dwarf	Calluna vulgaris
Hosta	Hosta spp.
Hyssop, Sunset	Agastache rupestris
Indian Blanket	Gaillardia pulchella
Lantana, Weeping	Lantana montevidensis
Leopards Bane	Doronicum cordatum
Lily	<i>Lillium</i> spp.
Liriope, Big Blue	Liriope muscari
Liriope, Creeping	Liriope spicata
Liriope, Variegated	Liriope muscari
Loosestrife, Garden	Lysimachia punctata
Montbretia	Crocosmia crocosmiiflora
Moonbeam	Coreopsis verticillata
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Perennials (continued)		
Common Name	Scientific Name	
Nightshade	Solanum spp.	
Orchid, Peacock	Acidanthera bicolor	
Oxeye Daisy	Chrysanthemum leucanthemum	
Peony, Chinese	Paeonia lactiflora	
Purple Coneflower	Echinacea purpurea	
Purple Loosestrife	Lythrum virgatum	
Rosemary	Rosmarinus officinalis	
Ruscus, Israeli	Ruscus hypophyllum	
Sage, Russian	Perovskia atriplicifolia	
Sedge	Carex spp.	
Shasta Daisy	Chrysanthemum x superbum	
Sweet Flag	Acorus calamus	
Texas Bluebonnet	Lupinus texenis	
Tickseed	Coreopsis lanceolata	
Tulip	<i>Tulipa</i> spp.	
Twinspur	Díasciascia barbaerae	
Wonder Flower	Ornithogalum thyrsoides	
Yarrow	Achillea millefolium	
Zephyr Lily	Zephyranthes spp.	

*Applications of **Pendulum[®] 0.5% Plus Fertilizer** to immature ferns (during periods of new growth of fronds) may result in some injury.

Ornamental Grass

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Common Name	Scientific Name
Beach Grass	Ammophila breviligulata
Fescue, Blue	Festuca ovina
Fescue, Sheep	Festuca ovina
Fountain Grass	Pennisetum setaceum
Pampas Grass	Cortaderia selloana
Reed Canary Grass	Phalaris arundinacea
Reed, Giant	Arundo spp.
Ribbon Grass	Phalaris arundinacea
Tufted Hair Grass	Deschampsia caespitosa

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Bedding Plants*

Common Name	Scientific Name
Ageratum	Ageratum houstonianum
Alyssum	Alyssum saxatile
Anemone, Poppy-flowered	Anemone coronaria
Artemesia	Artemesia spp.
Balloonflower	Platycodon grandiflorum
Begonia	Begonia spp.
Cabbage, Ornamental	Brassica olereacea
Caladium	Caladium spp.
China Aster	Callistephus chinensis
Crocosmia, Montebretia	Crocosmia x crocosmiiflora
Dahlia	Dahlia spp.
Dianthus	Dianthus barbatus
Dusty Miller	Senecio cineraria
Gazania, Trailing	Gazania rigens leucolaena
Gazania, Treasure Flower	Gazania rigens
Geranium	Geranium spp.
Gloxinia	Gloxinia simningia
Impatiens	Impatiens spp.
Kale, Ornamental	Brassica napus
Marigold, African	Tagetes erecta
Moss Rose	Portulaca grandiflora
Mum, Garden	Chrysanthemum spp.
Pansy, Garden	Viola x wittrockiana
Periwinkle, Rose	Catharanthus roseus
	or Vinca rosea
Petunia	Petunia spp.
Plumosa Cockscomb	Celosia cristata
Portulaca	Portulaca grandiflora
Salvia	Salvia splendens
Snapdragon	Antirrhinum majus
Statice	Limonium spp.
Sweet William	Dianthus barbatus
Vinca or Periwinkle	Catharanthus roseus
Zinnia	Zinnia spp.

*After planting bedding plants and before **Pendulum[®] 0.5% Plus Fertilizer** is applied, area to be treated should be watered sufficiently to pack soil around roots.

Pendulum 0.5% Plus Fertilizer may be used on plant species not listed on this label. The suitability for such uses should be determined by treating a small number of such plants at the specified rate. Treated plants should be evaluated 1-2 months following treatment for possible injury. TO THE FULLEST EXTENT PERMITTED BY LAW, THE USER ASSUMES RESPONSIBILITY FOR ANY CROP DAMAGE OR OTHER LIABILITY.

DO NOT treat plants grown for food or feed.

DO NOT use treated plants for food or feed.

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